

Package: nlrr (via r-universe)

September 17, 2024

Encoding UTF-8

Title Non-Linear Relative Risk Estimation and Plotting

Version 0.1

Description Estimate the non-linear odds ratio and plot it against a continuous exposure.

Depends R (>= 3.2.2)

Imports rms, Hmisc

License GPL (>= 2)

LazyData true

NeedsCompilation no

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Date/Publication 2015-11-01 18:47:19

Repository <https://zhanyq.r-universe.dev>

RemoteUrl <https://github.com/cran/nlrr>

RemoteRef HEAD

RemoteSha 0ada820c5246d767bab0247c129bbee4036ae0be

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Lipid	<i>Lipid and diabetes</i>
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Description

This data set gives the simulated data for lipid, age, gender, and diabetes.

Usage

Lipid

Format

A data frame containing 2000 observations.

Source

simulated

References

Not applicable

nlor	<i>Odds ratio plot for dose - response non-linear continuous exposure.</i>
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Description

Calculates non-linear odds ratio and plot OR vs. a continuous variable.

Usage

```
nlor(outcome, exposure, covar = NULL, ref = NULL, knum = 4, data)
```

Arguments

outcome	the outcome variable
exposure	the exposure variable
covar	a covariats list
ref	reference value for the continuous variable
knum	number of knots
data	name of a dataset

Examples

```
sum1 <- nlor('dm', 'lipid', covar = c('age', 'gender'), 0.6, data = Lipid)
head(sum1)
```

`nlorplot`*Odds ratio plot for dose - response non-linear continuous exposure.*

Description

Calculates non-linear odds ratio and plot OR vs. a continuous variable.

Usage

```
nlorplot(exposure, or, data, xlab = NULL)
```

Arguments

<code>exposure</code>	the exposure variable
<code>or</code>	odds ratio
<code>data</code>	name of a dataset
<code>xlab</code>	x-axis

Examples

```
sum1 <- nlor('dm', 'lipid', covar = c('age', 'gender'), 0.6, data = Lipid)
head(sum1)
nlorplot('lipid', 'or', data = sum1, xlab = 'Lipid')
```

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